

IN THE CLAIMS:

Claim 1 (amended): A reflow soldering apparatus comprising a conveyor to transport circuit boards mounted with electronic components into multiple chambers, and blowing means installed in said chambers and having vertical rotating shafts respectively, a first casing member having a fan storage section housing said blowing means and a gas guide section extending from said fan storage section in a direction perpendicular to a transport line of said conveyor, a second casing member connected to said gas guide section of said first casing member and having multiple heated gas nozzle holes on the side facing said conveyor, and a gas circulated by said blowing means and heated while passing through a heater installed within said apparatus and entered said second casing member from said gas guide section of said first casing member to be blown from said nozzle holes onto said circuit boards on said conveyor, wherein the centers of the impellers in said adjacent blowing means are not on a single perpendicular plane along a transport line of said conveyor and said adjacent blowing means are arrayed offset to the left and right in a direction perpendicular to the transport line of said conveyor, and said adjacent blowing means are installed to overlap as seen horizontally from a direction perpendicular to the transport line of said conveyor, and said first casing member and said second casing member have a width smaller than the diameter of said blowing means.

Claim 2 (canceled):

Claim 3 (amended): A reflow soldering apparatus comprising a conveyor to transport circuit boards mounted with electronic components into multiple chambers, and

blowing means installed in said chambers and having vertical rotating shafts respectively,
a first casing member having a fan storage section housing said blowing means and a gas
guide section extending from said fan storage section in a direction perpendicular to a
transport line of said conveyor, a second casing member connected to said gas guide
section of said first casing member and having multiple heated gas nozzle holes on the
side facing said conveyor, and a gas circulated by said blowing means and heated while
passing through a heater installed within said apparatus and entered said second casing
member from said gas guide section of said first casing member to be blown from said
nozzle holes onto said circuit boards on said conveyor, wherein the centers of the impellers
~~in said adjacent blowing means are not on a single horizontal plane and~~ said adjacent
blowing means are arrayed offset up and down in a direction perpendicular to the transport
line of said conveyor, and said adjacent blowing means are installed to overlap as seen
vertically from a direction perpendicular to the transport line of said conveyor, and said first
casing member and said second casing member have a width smaller than the diameter
of said blowing means.

Claim 4 (canceled):

Claims 5-7 (canceled):

Claim 8 (amended): A reflow soldering apparatus comprising a conveyor to transport circuit boards mounted with electronic components into multiple chambers, and blowing means installed in said chambers and having vertical rotating shafts respectively,

a first casing member having a fan storage section housing said blowing means and a gas guide section extending from said fan storage section in a direction perpendicular to a transport line of said conveyor, a second casing member connected to said gas guide section of said first casing member and having multiple heated gas nozzle holes on the side facing said conveyor, and a gas circulated by said blowing means and heated while passing through a heater installed within said apparatus and entered said second casing member from said gas guide section of said first casing member to be blown from said nozzle holes onto said circuit boards on said conveyor, wherein the centers of the impellers in said adjacent blowing means are not on a single perpendicular plane along a transport line of said conveyor and said adjacent blowing means are arrayed offset to the left and right in a direction perpendicular to the transport line of said conveyor, and said blowing means storage sections of the adjacent first casing members of said blowing means are installed to overlap as seen horizontally from a direction perpendicular to the transport line of said conveyor, and said first casing member and said second casing member have a width smaller than the diameter of said blowing means.

Claim 9 (canceled):

Claim 10 (amended): A reflow soldering apparatus comprising a conveyor to transport circuit boards mounted with electronic components into multiple chambers, and blowing means installed in said chambers and having vertical rotating shafts respectively, a first casing member having a fan storage section housing said blowing means and a gas guide section extending from said fan storage section in a direction perpendicular to a

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transport line of said conveyor, a second casing member connected to said gas guide
section of said first casing member and having multiple heated gas nozzle holes on the
side facing said conveyor, and a gas circulated by said blowing means and heated while
passing through a heater installed within said apparatus and entered said second casing
member from said gas guide section of said first casing member to be blown from said
nozzle holes onto said circuit boards on said conveyor, wherein the centers of the impellers
~~in said adjacent blowing means are not on a single horizontal plane and said adjacent~~
~~blowing means are arrayed offset up and down in a direction perpendicular to the transport~~
~~line of said conveyor, and said blowing means storage sections of the adjacent first casing~~
~~members of said blowing means are installed to overlap as seen vertically from a direction~~
~~perpendicular to the transport line of said conveyor, and said first casing member and said~~
~~second casing member have a width smaller than the diameter of said blowing means.~~

Claim 11(canceled):